Bio-Research Consultants, Incorporated
9 Commercial Avenue
Cambridge, Massachusetts 02141

The Determination of the Usefulness of the Golden Syrian Hamster as Model Animal for Inhalation Studies. Contract #5

Animals of two inbred strains of Syrian hamster -- (1) "cancer susceptible" and (2) "hardy" or "cancer resistant" -- will be exposed to inhalation of whole smoke and of the gaseous phase of smoke. LD_{50} values will be determined for both strains, using no less than five levels per dose with 24 animals per level. Maximum-tolerated dose will be determined for both strains on a chronic basis, including duration of exposure at various degrees of dilution of smoke with air and study of blood CO levels. After these determinations have been made, long-range lifetime experiments will be initiated. During the first year a special study will be made on hamsters exposed to smoke inhalation. At the conclusion of the study, all animals will be autopsied, all organs will be inspected, and histological sections will be prepared.

A second study will be done in order to ascertain that dose of hydrocarbon which, when intratracheally injected, will not produce tumors but could be used as an initiating dose in experiments testing for any co-carcinogenic effect of intratracheal cigarette smoke condensate and, later on, inhaled smoke. Four groups of 25 BIO 15.16 hamsters will be used.

Current Contract Level: $75,000.

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Source: https://www.industrydocuments.ucsf.edu/docs/mgxl0000